VSR Civil Infra Pvt. Ltd

#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975
Bengaluru – 560 019.

Job No.: VSR/BBMP/SDV/W.No.08/2020-21 Date: 23.07.2020

TEST REPORT

CLIENT	:	Executive Engineer, Project Yelahanka Division, BBMP, Bengaluru.
AGENCY	:	Sri. S D Venkatesh Gowda, Bengaluru.
NAME OF THE WORK	:	Improvements to roads and drains in Kodigehalli, Bhadrappa layout Devinagara and surroundings Ward No - 08, BBMP Bengaluru.
SAMPLE ID	:	Cement (Ultratech – OPC 53 Grade)
DATE OF MANUFACTURE	:	June - 2020
DATE OF TESTING	:	21.07.2020 to 23.07.2020
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	435Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50 %	-

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Consultants representative **Contractor representative** **Client Representative**

Asst. Engineer

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Bengaluru – 560 019.

Job No.: VSR/BBMP/SDV/W.No.08/2020-21 Date 23.07.2020

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer, Project Yelahanka Division, BBMP, Bengaluru.**
Agency : **Sri. S D Venkatesh Gowda, Bengaluru.**
Name of Work : Improvements to roads and drains in Kodigehalli, Bhadrappa layout Devinagara and surroundings Ward No - 08, BBMP Bengaluru.

Date of Testing 23.07.2020

Material : Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	54	5.40	5.40	94.6	90-100
2.36	154	15.40	20.80	79.2	75-100
1.18	132	13.20	34.00	66.0	55-90
600 Micron	125	12.50	46.50	53.5	35-59
300 Micron	255	25.50	72.00	28.0	8-30
150 Micron	205	20.50	92.50	7.5	0-10

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Job No.: VSR/BBMP/SDV/W.No.08/2020-21 Date 23.07.2020

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer, Project Yelahanka Division, BBMP, Bengaluru.**
Agency : **Sri. S D Venkatesh Gowda, Bengaluru.**
Name of Work : Improvements to roads and drains in Kodigehalli, Bhadrappa layout Devinagara and surroundings Ward No - 08, BBMP Bengaluru.

Date of Testing 23.07.2020

Material : 40mm Aggregates

Total wt. of aggregates in gms = **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	432	2.88	2.88	97.12	95-100
20	5232	34.88	37.76	62.24	30-70
10	5311	35.41	73.17	26.83	10-35
4.75	3525	23.50	96.67	3.33	0-5

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Job No.: VSR/BBMP/SDV/W.No.08/2020-21 Date: 23.07.2020

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer, Project Yelahanka Division, BBMP, Bengaluru.**

Agency : **Sri. S D Venkatesh Gowda, Bengaluru.**

Name of Work : Improvements to roads and drains in Kodigehalli, Bhadrappa layout Devinagara and surroundings Ward No - 08, BBMP Bengaluru.

Date of Testing 23.07.2020

Material : 20mm Aggregates

Total wt. of aggregates in gms = **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	141	2.8	2.8	97.2	95-100
10	2325	46.5	49.3	50.7	25-55
4.75	2154	43.1	92.4	7.6	0-10

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Job No.: VSR/BBMP/SDV/W.No.08/2019-20 Date: 28.07.2020

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer, Yelahanka Division**, BBMP, Bengaluru.
Agency : **Sri. S D Venkatesh Gowda,** Bengaluru
Name of Work : Improvements to roads and drains in Kodigehalli, Bhadrappa layout Devinagara and surroundings Ward No - 08, BBMP Bengaluru.
Sample Identification : 8mm,10mm,12mm Fe 500 TMT Bars
Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test : 28.07.2020

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.33	538	547	13
2	Fe 500	10	0.65	550	551	14
3	Fe 500	12	0.84	554	563	14.5

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Job No.: VSR/BBMP/SDV/W.No.08/2020-21

Date: 14.09.2020

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client : **Executive Engineer, Project Yelahanka Division,** BBMP, Bengaluru.
Contractor : **Sri. S D Venkatesh Gowda, Bengaluru.**
Name of Work : Improvements to roads and drains in Kodigehalli, Bhadrappa layout Devinagara and surroundings Ward No - 08, BBMP Bengaluru.
No.of Sample Tested : 03
Date of Testing : 14.09.2020
Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete : M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	76.00	0.348	2332.04	1.52	0.960	33.00	16.81	18.15	17.43	21.78
2	50.00	79.00	0.365	2353.08	1.58	0.960	34.20	17.42	18.81	18.06	22.57
3	50.00	83.00	0.388	2380.80	1.66	0.960	35.10	17.88	19.31	18.53	23.17

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Job No.: VSR/BBMP/SDV/W.No.08/2020-21

Date: 16.09.2020

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client	:	**Executive Engineer, Project Yelahanka Division, BBMP, Bengaluru.**
Contractor	:	**Sri. S D Venkatesh Gowda, Bengaluru.**
Name of Work	:	Improvements to roads and drains in Kodigehalli, Bhadrappa layout Devinagara and surroundings Ward No - 08, BBMP Bengaluru.
No.of Sample Tested	:	03
Date of Testing	:	16.09.2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	100.00	171.00	3.126	2327.57	1.71	0.960	133.20	16.96	18.32	17.58	21.98
2	100.00	176.00	3.263	2360.56	1.76	0.960	135.80	17.29	18.67	17.93	22.41
3	100.00	180.00	3.373	2385.91	1.80	0.960	139.30	17.74	19.16	18.39	22.99

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Job No.: VSR/BBMP/SDV/W.No.08/2020-21 Date: 14.08.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri. S D Venkatesh Gowda,** Bengaluru.

Name of the work :Improvements to roads and drains in Kodigehalli, Bhadrappa layout Devinagara and surroundings Ward No - 08, BBMP Bengaluru.

Sample ID : Cement Concrete Drain

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.08.2020	14.08.2020	8.025	345.2	15.34
2	07.08.2020	14.08.2020	8.135	354.6	15.76
3	07.08.2020	14.08.2020	8.162	361.7	16.08

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Job No.: VSR/BBMP/SDV/W.No.08/2020-21 Date: 04.09.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri. S D Venkatesh Gowda,** Bengaluru.

Name of the work :Improvements to roads and drains in Kodigehalli, Bhadrappa layout Devinagara and surroundings Ward No - 08, BBMP Bengaluru.

Sample ID : Cement Concrete Drain

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.08.2020	04.09.2020	8.232	502.3	22.32
2	07.08.2020	04.09.2020	8.241	514.6	22.87
3	07.08.2020	04.09.2020	8.321	523.8	23.28

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Job No.: VSR/BBMP/SDV/W.No.08/2020-21 Date: 14.08.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri. S D Venkatesh Gowda,** Bengaluru.

Name of the work :Improvements to roads and drains in Kodigehalli, Bhadrappa layout Devinagara and surroundings Ward No - 08, BBMP Bengaluru.

Sample ID : Cement Concrete Drain

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.08.2020	14.08.2020	8.101	342.5	15.22
2	07.08.2020	14.08.2020	8.125	351.6	15.63
3	07.08.2020	14.08.2020	8.150	362.4	16.11

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Job No: VSR/BBMP/SDV/W No.08/2020-21 Date: 04.09.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri. S D Venkatesh Gowda,** Bengaluru.

Name of the work :Improvements to roads and drains in Kodigehalli, Bhadrappa layout Devinagara and surroundings Ward No - 08, BBMP Bengaluru.

Sample ID : Cement Concrete Drain

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.08.2020	04.09.2020	8.232	502.3	22.32
2	07.08.2020	04.09.2020	8.254	515.6	22.92
3	07.08.2020	04.09.2020	8.269	532.4	23.66

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Job No.: VSR/BBMP/SDV/W.No.08/2020-21 Date: 04.09.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri. S D Venkatesh Gowda,** Bengaluru.

Name of the work :Improvements to roads and drains in Kodigehalli, Bhadrappa layout Devinagara and surroundings Ward No - 08, BBMP Bengaluru.

Sample ID : Cement Concrete Drain

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.08.2020	04.09.2020	8.254	498.5	22.16
2	07.08.2020	04.09.2020	8.325	503.6	22.38
3	07.08.2020	04.09.2020	8.314	514.8	22.88

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Job No.: VSR/BBMP/SDV/W.No.08/2020-21 Date: 14.08.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri. S D Venkatesh Gowda,** Bengaluru.

Name of the work :Improvements to roads and drains in Kodigehalli, Bhadrappa layout Devinagara and surroundings Ward No - 08, BBMP Bengaluru.

Sample ID : Cement Concrete Drain

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.08.2020	14.08.2020	8.165	343.5	15.27
2	07.08.2020	14.08.2020	8.132	348.5	15.49
3	07.08.2020	14.08.2020	8.147	355.1	15.78

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Job No.: VSR/BBMP/SDV/W.No.08/2020-21 Date: 04.09.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri. S D Venkatesh Gowda,** Bengaluru.

Name of the work :Improvements to roads and drains in Kodigehalli, Bhadrappa layout Devinagara and surroundings Ward No - 08, BBMP Bengaluru.

Sample ID : Cement Concrete Drain

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.08.2020	04.09.2020	8.215	506.3	22.50
2	07.08.2020	04.09.2020	8.232	523.4	23.26
3	07.08.2020	04.09.2020	8.254	532.6	23.67

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Job No.: VSR/BBMP/SDV/W.No.08/2020-21 Date: 17.08.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri. S D Venkatesh Gowda,** Bengaluru.

Name of the work :Improvements to roads and drains in Kodigehalli, Bhadrappa layout Devinagara and surroundings Ward No - 08, BBMP Bengaluru.

Sample ID : Cement Concrete Drain

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.08.2020	17.08.2020	8.052	342.5	15.22
2	10.08.2020	17.08.2020	8.121	361.5	16.07
3	10.08.2020	17.08.2020	8.136	355.6	15.80

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Job No.: VSR/BBMP/SDV/W.No.08/2020-21 Date: 17.08.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri. S D Venkatesh Gowda,** Bengaluru.

Name of the work :Improvements to roads and drains in Kodigehalli, Bhadrappa layout Devinagara and surroundings Ward No - 08, BBMP Bengaluru.

Sample ID : Cement Concrete Drain

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.08.2020	17.08.2020	8.052	342.5	15.22
2	10.08.2020	17.08.2020	8.121	361.5	16.07
3	10.08.2020	17.08.2020	8.136	355.6	15.80

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Bengaluru – 560 019.

Job No.: VSR/BBMP/SDV/W.No.08/2020-21 Date: 07.09.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri. S D Venkatesh Gowda,** Bengaluru.

Name of the work :Improvements to roads and drains in Kodigehalli, Bhadrappa layout Devinagara and surroundings Ward No - 08, BBMP Bengaluru.

Sample ID : Cement Concrete Drain

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.08.2020	07.09.2020	8.232	502.3	22.32
2	10.08.2020	07.09.2020	8.241	508.6	22.60
3	10.08.2020	07.09.2020	8.236	515.4	22.91

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#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975
Bengaluru – 560 019.

Job No.: VSR/BBMP/SDV/W.No.08/2020-21 Date: 17.08.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri. S D Venkatesh Gowda,** Bengaluru.

Name of the work :Improvements to roads and drains in Kodigehalli, Bhadrappa layout Devinagara and surroundings Ward No - 08, BBMP Bengaluru.

Sample ID : Cement Concrete Drain

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.08.2020	17.08.2020	8.051	342.5	15.22
2	10.08.2020	17.08.2020	8.121	351.6	15.63
3	10.08.2020	17.08.2020	8.136	362.4	16.11

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Job No.: VSR/BBMP/SDV/W.No.08/2020-21

Date: 07.09.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri. S D Venkatesh Gowda,** Bengaluru.

Name of the work :Improvements to roads and drains in Kodigehalli, Bhadrappa layout Devinagara and surroundings Ward No - 08, BBMP Bengaluru.

Sample ID : Cement Concrete Drain

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.08.2020	07.09.2020	8.132	502.3	22.32
2	10.08.2020	07.09.2020	8.145	515.6	22.92
3	10.08.2020	07.09.2020	8.163	523.4	23.26

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Job No.: VSR/BBMP/SDV/W.No.08/2020-21

Date: 17.08.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri. S D Venkatesh Gowda,** Bengaluru.

Name of the work :Improvements to roads and drains in Kodigehalli, Bhadrappa layout Devinagara and surroundings Ward No - 08, BBMP Bengaluru.

Sample ID : Cement Concrete Drain

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.08.2020	17.08.2020	8.132	355.6	15.80
2	10.08.2020	17.08.2020	8.215	352.6	15.67
3	10.08.2020	17.08.2020	8.147	348.3	15.48

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Bengaluru – 560 019.

Job No.: VSR/BBMP/SDV/W.No.08/2020-21

Date: 07.09.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri. S D Venkatesh Gowda,** Bengaluru.

Name of the work :Improvements to roads and drains in Kodigehalli, Bhadrappa layout Devinagara and surroundings Ward No - 08, BBMP Bengaluru.

Sample ID : Cement Concrete Drain

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.08.2020	07.09.2020	8.265	502.3	22.32
2	10.08.2020	07.09.2020	8.313	515.6	22.92
3	10.08.2020	07.09.2020	8.362	523.6	23.27

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Bengaluru – 560 019.

Job No.: VSR/BBMP/SDV/W.No.08/2020-21

Date: 16.10.2020

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer, Project Yelahanka Division, BBMP, Bengaluru.**
Agency : **Sri. S D Venkatesh Gowda, Bengaluru.**
Name of Work : Improvements to roads and drains in Kodigehalli, Bhadrappa layout Devinagara and surroundings Ward No - 08, BBMP Bengaluru.
Date of Testing 16.10.2020
Material : WMM

Total wt. of aggregates in gms = **13000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
53	0	0	0	100	100
45	145	1.1	1.1	98.9	95--100
22.4	3375	26.0	27.1	72.9	60--80
11.2	2570	19.8	46.8	53.2	40--60
4.75	3125	24.0	70.9	29.1	25--40
2.36	630	4.8	75.7	24.3	15--30
0.6	1324	10.2	85.9	14.1	8--22
0.075	1154	8.9	94.8	5.2	0--8

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#552/B, 6th Main Road, Hanumantanagar, Cell : 9845230975
Bengaluru – 560 019.

Job No.: VSR/BBMP/SDV/W.No.08/2020-21 Date: 16.10.2020

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : Executive Engineer, Project Yelahanka Division, BBMP, Bengaluru.
Agency : Sri. S D Venkatesh Gowda, Bengaluru.
Name of Work : Improvements to roads and drains in Kodigehalli, Bhadrappa layout Devinagara and surroundings Ward No - 08, BBMP Bengaluru.
Date of Testing 16.10.2020
Material : WMM

Total wt. of aggregates in gms = **13000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
53	0	0	0	100	100
45.00	151.00	1.16	1.16	98.84	95--100
22.40	3325.00	25.58	26.74	73.26	60--80
11.20	2325.00	17.88	44.62	55.38	40--60
4.75	3141.00	24.16	68.78	31.22	25--40
2.36	625.00	4.81	73.59	26.41	15--30
0.60	1352.00	10.40	83.99	16.01	8--22
0.08	1154.00	8.88	92.87	7.13	0--8

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Bengaluru – 560 019.

Job No : VSR/BBMP/SDV/W.No.08/2020-21

TEST REPORT ON DRY DENSITY OF SOIL/ GSB/WMM (SAND REPLACEMENT METHOD)
TEST METHOD : IS : 2720 (PART XXVIII)

Client : Executive Engineer, Project Yelahanka Division, BBMP, Bengaluru.
Agency : Sri. S D Venkatesh Gowda, Bengaluru.
Name of Work : Improvements to roads and drains in Kodigehalli, Bhadrappa layout Devinagara and surroundings Ward No - 08, BBMP Bengaluru.
Material : WMM

DRY DENSITY OF SOIL/ GSB/WMM (SAND REPLACEMENT METHOD)
TEST METHOD : IS : 2720 (PART XXVIII)

Location / Chainage		Date of Sampling	17.10.2020
Type of Material		Date of Testing	17.10.2020
Source of Material		Bulk Density of sand(ys)	1.37
Layer Type & No	1A	Wt. of Sand in cone, W3	850
LAB M.D.D. Yd	2.18	gm/cm3 @ O.M.C.	5.5

OBSERVATIONS

Sl No	Description/Location	Trial no 01	Trial no 02	Trial no 03
1	Wt. of wet material from hole. W_w	3250.00	3398.00	3421.00
2	Wt of sand + cylinder before pouring, W_1	16000.00	16000.00	16000.00
3	Wt of sand + cylinder after pouring, W2	13178.00	13099.67	13080.92
4	Wt. of sand in hole, W4 = (W1 - W2 - W3)	1972.00	2050.33	2069.08
5	Volume of Hole V=W4/Ys cc	1439.23	1496.59	1510.27
6	Bulk Density of material Yb = Ww / V gm/cc	2.26	2.27	2.27
7	Water content, w(as per QC-2)	1.05	1.05	1.05
8	Dry density, yd = [(100 yb) / (100+ w)] gm/cm3	2.15	2.16	2.15
9	compaction achieved=[yd / yd(lab)] x 100%	98.54	98.89	98.62

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Bengaluru – 560 019.

Job No.: VSR/BBMP/SDV/W.No.08/2020-21 Date: 29.10.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Project Yelahanka Division, BBMP, Bengaluru.

Agency : **Sri. S D Venkatesh Gowda,** Bengaluru.

Name of the work :Improvements to roads and drains in Kodigehalli, Bhadrappa layout Devinagara and surroundings Ward No - 08, BBMP Bengaluru.

Sample ID : Cement Concrete Drain

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 7th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.10.2020	29.10.2020	8.015	481.6	21.40
2	22.10.2020	29.10.2020	8.121	492.3	21.88
3	22.10.2020	29.10.2020	8.141	502.3	22.32

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